

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	51	(ishizawa-shigeru\$.in. saeki-hiroaki\$.in.) and vacuum\$4	US-PGPUB; USPAT	OR	ON	2009/07/07 16:26
L2	971	vacuum.clm. and (transfer\$4 transport\$4 convey\$4).clm. and (arm robot hand mechanism member).clm. and (rail track).clm.	US-PGPUB; USPAT	OR	ON	2009/07/07 17:21
L3	1	10/500,102 and (wafer substrate semiconductor)	US-PGPUB; USPAT	OR	ON	2009/07/07 17:31
L4	426	vacuum.clm. and (transfer\$4 transport\$4 convey\$4).clm. and (arm robot hand mechanism member).clm. and (rail track).clm. and (wafer substrate disc disk semiconductor)	US-PGPUB; USPAT	OR	ON	2009/07/07 17:31
S7	3303	((414/935,939) or (118/719) or (156/345.31) or (156/345.32) or (204/298.23,298.25,298.27)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/19 14:48
S8	3303	((414/935,939) or (118/719) or (156/345.31) or (156/345.32) or (204/298.23,298.25,298.27)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/22 14:11
S9	73	S8 and ((rail\$3 track\$3) same ((detect\$4 sens\$4 observ\$5 measur\$5) with (position \$3 location\$3)))	US-PGPUB; USPAT	OR	ON	2007/07/30 19:23
S10	41	("5417537").URPN.	USPAT	OR	ON	2006/09/22 14:53
S11	9	("4042128" "4542712" "4624617" "4676884" "4766993" "4779538" "5215420" "5234303" "5284411").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 15:18
S12	27	("4714400" "4985722" "5061144" "5177514" "5202716" "5297910" "5339128" "5364222" "5418382" "5430271" "5442416" "5466945" "5565034" "5571325" "5575376" "5602431" "5626675" "5639301" "5664254" "5762745" "5796486" "5825470" "5937223" "6126703" "6139245" "6146083" "6168667").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 15:24
S13	0	("6533531").URPN.	USPAT	OR	ON	2006/09/22 15:25
S14	0	("6533531").URPN.	USPAT	OR	ON	2006/09/22 15:33
S15	11	"1146548"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/22 15:36
S16	1	("7025554").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/22 15:36
S17	13	("20020006323" "20040117059" "20050220577" "4483651" "5695564" "5846328" "5855726" "5882165" "6079927" "6235634" "6257827" "6540869" "6729824").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 15:36

S18	22	("4483651").URPN.	USPAT	OR	ON	2006/09/22 15:44
S19	1	("5417537").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/22 15:44
S20	43	("6235634").URPN.	USPAT	OR	ON	2006/09/22 15:48
S21	261	("20020001929" "2617719" "2625886" "3744660" "3890176" "3900551" "3968885" "4029517" "4091643" "4219333" "4245154" "4341592" "4355937" "4367140" "4406596" "4422651" "4474199" "4475993" "4522788" "4549467" "4592306" "4601181" "4626509" "4670126" "4682937" "4693777" "4749440" "4778356" "4788043" "4789077" "4823976" "4825808" "4827867" "4838476" "4865061" "4877530" "4879004" "4879431" "4917556" "4923828" "4924892" "4933404" "4944837" "4951601" "4960140" "4983223" "5011542" "5013366" "5044871" "5062770" "5068040" "5071485" "5105556" "5143103" "5158704" "5167716" "5169296" "5169408" "5174917" "5185058" "5185296" "5186718" "5188515" "5190373" "5191993" "5193560" "5195878" "5201960" "5213485" "5213619" "5215592" "5217043" "5221019" "5222876" "5224504" "5225173" "5236602" "5236669" "5237824" "5238671" "5240390" "5243821" "5246500" "5250078" "5251776" "5261965" "5266205" "5267455" "5269815" "5274129" "5280693" "5285352" "5288333" "5290361" "5294261" "5298032" "5304515" "5306350" "5312882" "5313965" "5314574" "5316591" "5328722" "5334332" "5334493" "5337446" "5339844" "5352327" "5355901" "5356538" "5364497" "5368171" "5370740" "5370741" "5370742" "5377705" "5401322" "5403621" "5403665" "5404894" "5412958" "5417768" "5433334" "5447294").PN. OR ("5456759" "5470393" "5474812" "5482564" "5486212" "5494526" "5500081" "5501761" "5503176" "5505219" "5509431" "5514220" "5522938" "5526834" "5533538" "5547774" "5550211" "5571330" "5580846" "5589082" "5589105" "5589224" "5621982" "5629918" "5632847" "5635463" "5637151" "5641887" "5644855" "5649809" "5656097" "5665527" "5669251" "5672204" "5676705" "5679169" "5679171" "5683473" "5683977" "5688879" "5700379" "5702228" "5706319" "5726211" "5730874" "5739223" "5746008" "5783082" "5797719" "5798126" "5798438" "5804607"	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 15:48

		"5817178" "5866005" "5868856" "5868862" "5872257" "5873948" "5881577" "5882165" "5888050" "5898727" "5900107" "5900354" "5904737" "5908510" "5928389" "5932100" "5934856" "5934991" "5944996" "5955140" "5965025" "5976264" "5979306" "5980648" "5981399" "5989342" "6005226" "6017820" "6024801" "6029371" "6035871" "6037277" "6053348" "6056008" "6067728" "6077053" "6077321" "6082150" "6085935" "6097015" "6110232" "6114044" "6128830" "6145519" "6149828" "6159295" "6164297" "6186722" "6200943" "6203582" "6216364" "6224774" "6228563" "6228826" "6235634" "6239038" "6241825" "6242165" "6244121" "6251250" "6277753" "6286231" "6305677" "6334266" "6344174" "6388317" "6389677" "6418956" "6436824" "6454519" "6454945" "6464790" "6508259").PN. OR ("6521466" "6541278" "6546946" "6550484" "6558475" "6561213" "6561220" "6561481" "6561767" "6564826").PN.				
S22	1	("5417537").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/05 09:11
S23	1	("6863485").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/05 09:11
S24	2	"2000150618"	EPO; JPO; DERWENT	OR	ON	2007/02/05 10:00
S25	85	ishizawa-shigeru.in. saeki-hiroaki.in.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:15
S26	66	(ishizawa-shigeru.in. saeki-hiroaki.in.) and (sens\$4 detect\$4)	US-PGPUB; USPAT	OR	ON	2007/02/05 10:00
S27	37	(ishizawa-shigeru.in. saeki-hiroaki.in.) and ((sens\$4 detect\$4) with position)	US-PGPUB; USPAT	OR	ON	2007/02/05 10:01
S28	26	(US-20050087300-\$.did. or (US-5256204- \$ or US-5485910-\$ or US-6863485-\$ or US- 4824309-\$ or US-5284411-\$ or US- 6540869-\$ or US-5695564-\$ or US- 7025554-\$ or US-4151034-\$ or US- 6471459-\$ or US-4483651-\$ or US- 4185585-\$ or US-6533531-\$ or US- 6979168-\$ or US-6676365-\$ or US- 5417537-\$ or US-4722298-\$ or US- 6235634-\$ or US-6729824-\$ or US- 4624617-\$ or US-6736149-\$ or US- 6679671-\$.did. or (EP-1146548-\$.did. or (JP-2000150618-\$.did. or (WO- 200030156-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/14 14:22
S29	3363	(216/96,100,108.ccls. 252/79.1-79.2.ccls.)	US-PGPUB; USPAT	OR	ON	2007/02/14 13:12
S30	319	(acid\$3 with (hydrochloric "hcl")) same (acid\$3 with (nitric "hno.sub.3")) same (("cupric chloride" "cupric sulfate" "cupric oxide") ((cupric copper) with ion))	US-PGPUB; USPAT	OR	ON	2007/02/14 13:18
S31	11862	etch\$3 with (nickel chromium palladium)	US-PGPUB; USPAT	OR	ON	2007/02/14 13:19

S32	32	S30 and S31	US-PGPUB; USPAT	OR	ON	2007/02/14 13:19
S33	20	S30 and S31 and etchant	US-PGPUB; USPAT	OR	ON	2007/02/14 13:19
S34	6414	156/345.\$,ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/14 15:14
S35	1	("4766026").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 15:57
S36	1	("6528394").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 16:12
S37	5	((("5534751") or ("5998932") or ("6176919") or ("6562189") or ("6667340"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 16:32
S38	4	((("20040135175") or ("20050148121") or ("20050180187") or ("20050250308"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 16:35
S39	3	((("20050135181") or ("20030116790") or ("6838773"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 17:03
S40	6	((("3012918") or ("3153683") or ("3153684") or ("3255034") or ("5891967") or ("6635334"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 17:04
S41	42	("5417537").URPN.	USPAT	OR	ON	2007/03/30 13:40
S42	23	("4483651").URPN.	USPAT	OR	ON	2007/07/30 16:43
S43	26	(US-20050087300-\$.did. or (US-4483651- \$ or US-6533531-\$ or US-6736149-\$ or US-6676365-\$ or US-5485910-\$ or US- 6471459-\$ or US-6540869-\$ or US- 6679671-\$ or US-6979168-\$ or US- 6863485-\$ or US-5284411-\$ or US- 7025554-\$ or US-6235634-\$ or US- 4185585-\$ or US-6729824-\$ or US- 4824309-\$ or US-5417537-\$ or US- 4722298-\$ or US-4151034-\$ or US- 4624617-\$ or US-5256204-\$ or US- 5695564-\$.did. or (EP-1146548-\$.did. or (JP-2000150618-\$.did. or (WO- 200030156-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/30 20:15
S44	9	("4624617" "5002455" "5417537" "5442416" "5844662" "6053687" "6091498" "6230721" "6235634").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:05
S45	11	("3946484" "3946931" "4584045" "4592306" "4643629" "4722298" "4985722" "5015177" "5061144" "5202716" "5339128").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:07
S46	22	("3584847" "4483651" "4664578" "4701251" "4705951" "4722298" "4825808" "4851018" "4852516" "5024570" "5110249" "5139459" "5163832" "5178639" "5234303" "5364219" "5442416" "5443346" "5658114" "5700127" "5846328" "5863170").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:09
S47	13	("2730987" "4500407" "4722298" "4981408" "5024570" "5047130" "5076205" "5288329" "5377816" "5379212" "5651868" "5695564").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:42

S48	14	("6053687").URPN.	USPAT	OR	ON	2007/07/30 18:45
S49	23	("3812947" "4178113" "5382127" "5417537" "5443346" "5536128" "5658115" "5855465" "5976199" "6149367" "6282459" "6413356" "6449522" "6473996" "6519502" "6562094" "6568896" "6599763" "6663340" "6722840" "6746198" "6758647" "6848882").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 19:02
S50	0	("6863485").URPN.	USPAT	OR	ON	2007/07/30 19:21
S51	0	("6863485").URPN.	USPAT	OR	ON	2007/07/30 19:22
S52	9	("4624617" "5002455" "5417537" "5442416" "5844662" "6053687" "6091498" "6230721" "6235634").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 19:22
S53	3512	((414/935,939) or (118/719) or (156/345.31) or (156/345.32) or (204/298.23,298.25,298.27)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/30 19:23
S54	704	S53 and (rail\$3 track\$3) and vacuum	US-PGPUB; USPAT	OR	ON	2007/07/30 19:23
S55	658	S53 and (rail\$3 track\$3) and vacuum and (elevat\$4 lift\$4 rais\$4 ris\$4 vertical\$4)	US-PGPUB; USPAT	OR	ON	2007/07/30 19:40
S56	98	S53 and ((rail\$3 track\$3) same vacuum same (elevat\$4 lift\$4 rais\$4 ris\$4 vertical \$4))	US-PGPUB; USPAT	OR	ON	2007/07/30 19:24
S57	24	("3641973").URPN.	USPAT	OR	ON	2007/07/30 19:29
S58	288	S53 and ((rail\$3 track\$3 beam) same vacuum) and ((elevat\$4 lift\$4 rais\$4 ris\$4 vertical\$4) with (support\$4 hold\$4 table susceptor chuck hand arm))	US-PGPUB; USPAT	OR	ON	2007/07/30 20:10
S59	198	S58 not S56	US-PGPUB; USPAT	OR	ON	2007/07/30 19:43
S60	34	("4681773").URPN.	USPAT	OR	ON	2007/07/30 19:53
S61	38	("3656454").URPN.	USPAT	OR	ON	2007/07/30 20:09
S62	31	118/718.ccls. and ((rail\$3 track\$3 beam) same vacuum) and ((elevat\$4 lift\$4 rais\$4 ris\$4 vertical\$4) with (support\$4 hold\$4 table susceptor chuck hand arm))	US-PGPUB; USPAT	OR	ON	2007/07/30 20:10
S63	2615	((156/345.51) or (156/345.54) or (118/728) or (118/729)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/30 20:16
S64	5680	S53 S63	US-PGPUB; USPAT	OR	ON	2007/07/30 20:16
S65	447	S53 and S63	US-PGPUB; USPAT	OR	ON	2007/07/30 20:16
S66	211	S53 and S63 and (rail\$3 track\$3 beam)	US-PGPUB; USPAT	OR	ON	2007/07/30 20:16
S67	144	S66 not (S59 S56)	US-PGPUB; USPAT	OR	ON	2007/07/30 20:17
S68	0	("2001/0050224").URPN.	USPAT	OR	ON	2007/07/30 20:53

S69	0	("2001/0050224").URPN.	USPAT	OR	ON	2007/07/30 20:53
S70	1	"11077753"	US-PGPUB; USPAT	OR	ON	2007/07/30 21:10
S71	1	("4981408").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/31 12:06
S72	1	("20010050224").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/31 12:18
S73	1	("6290824").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/31 12:18
S74	1338	(rail\$3 track\$3).clm. and (detect\$4 sens\$4 measur\$4 observ\$4).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (scal\$5).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 14:54
S75	160	(rail\$3 track\$3).clm. and (detect\$4 sens\$4 measur\$4 observ\$4).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (scal\$5).clm. and (wafer substrate semiconductor workpiece).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 14:55
S76	392	(rail\$3 track\$3 beam).clm. and (detect\$4 sens\$4 measur\$4 observ\$4).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (scal\$5).clm. and (wafer substrate semiconductor workpiece).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:01
S77	563	(rail\$3 track\$3 beam).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (wafer substrate semiconductor workpiece).clm. and (elevat\$4 rais\$4 raise raised raising raisable raiseable lift\$4).clm. and (vacuum pressure evacuat\$4 exhaust \$4).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:09
S78	144	(rail\$3 track\$3 beam).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (wafer substrate semiconductor workpiece).clm. and (elevat\$4 rais\$4 raise raised raising raisable raiseable lift\$4).clm. and (vacuum pressure evacuat\$4 exhaust \$4).clm. and (load\$3).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:10
S79	82	(rail\$3 track\$3 beam).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (wafer substrate semiconductor workpiece).clm. and (elevat\$4 rais\$4 raise raised raising raisable raiseable lift\$4).clm. and (vacuum pressure evacuat\$4 exhaust \$4).clm. and (cassette container "foup" "smif" pod).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:10
S80	91	ishizawa-shigeru.in. saeki-hiroaki.in.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:15
S81	1	("5686834").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/23 11:30
S82	1	"07108159"	US-PGPUB; USPAT	OR	ON	2008/03/20 15:03

S83	2	"07108159"	EPO; JPO; DERWENT	OR	ON	2008/03/20 15:03
S84	2	"11270461"	EPO; JPO; DERWENT	OR	ON	2008/03/20 15:12
S85	1	"11270461"	US-PGPUB; USPAT	OR	ON	2008/03/20 15:12
S86	86	118/728.ccls. and (focus with ring)	US-PGPUB; USPAT	OR	ON	2008/03/20 15:17
S87	339	118/715-733.ccls. and (focus with ring)	US-PGPUB; USPAT	OR	ON	2008/03/20 15:18
S88	479	156/345\$.ccls. and (focus with ring)	US-PGPUB; USPAT	OR	ON	2008/03/20 15:18
S89	0	156/345.914.ccls. and (surface with roughness).clm.	US-PGPUB; USPAT	OR	ON	2008/03/20 15:22
S90	0	156/345.914.ccls. and (surface with roughness)	US-PGPUB; USPAT	OR	ON	2008/03/20 15:22
S91	10	156/914.ccls. and (surface with roughness).clm.	US-PGPUB; USPAT	OR	ON	2008/03/20 15:22
S92	1	("4981408").PN.	US-PGPUB; USPAT	OR	OFF	2008/03/20 15:29
S93	1	("5417537").PN.	US-PGPUB; USPAT	OR	OFF	2008/03/20 16:07
S94	1	("20010050224").PN.	US-PGPUB; USPAT	OR	OFF	2008/03/20 16:21
S95	2	((("4981408") or ("5417537"))).PN.	US-PGPUB; USPAT	OR	OFF	2009/02/17 10:04
S96	40	(US-20050087300-\$ or US-20030200927-\$ or US-20010050224-\$ or US-20060015279-\$ or US-20070107845-\$).did. or (US-6471459-\$ or US-6540869-\$ or US-6679671-\$ or US-4151034-\$ or US-4185585-\$ or US-4624617-\$ or US-5256204-\$ or US-7025554-\$ or US-5417537-\$ or US-6676365-\$ or US-6863485-\$ or US-6979168-\$ or US-6533531-\$ or US-6729824-\$ or US-4824309-\$ or US-4722298-\$ or US-5284411-\$ or US-5485910-\$ or US-6235634-\$ or US-5773088-\$ or US-5695564-\$ or US-4701251-\$ or US-4981408-\$ or US-4483651-\$ or US-6736149-\$ or US-3641973-\$).did. or (US-6063248-\$ or US-5474611-\$ or US-4681773-\$ or US-4934315-\$ or US-6290824-\$).did. or (EP-1146548-\$).did. or (JP-2000150618-\$ or JP-07108159-\$).did. or (WO-200030156-\$ or JP-07108159-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 10:22
S97	1	S96 and ((gap slit) with (communicat\$4))	US-PGPUB; USPAT	OR	ON	2009/02/17 10:23
S98	14	(118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((guide with (slit gap)) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4))	US-PGPUB; USPAT	OR	ON	2009/02/17 10:44
S99	227	(118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4))	US-PGPUB; USPAT	OR	ON	2009/02/17 11:00

S100	4	((118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail\$4 track\$4))	US-PGPUB; USPAT	OR	ON	2009/02/17 11:09
S101	9	((118/715-733.ccls. 156/345.\$ccls.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail\$4 track\$4))	US-PGPUB; USPAT	OR	ON	2009/02/17 11:11
S102	5	S101 not S100	US-PGPUB; USPAT	OR	ON	2009/02/17 11:11
S103	13	("414"/\$.ccls.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail\$4 track\$4))	US-PGPUB; USPAT	OR	ON	2009/02/17 11:12
S104	36	("4681773").URPN.	USPAT	OR	ON	2009/02/17 11:23
S105	6	((transfer\$4 transport\$4 convey\$4 carry\$4) with chamber) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4)) and (rail\$4 track\$4) and (substrate workpiece disk disc semiconductor wafer)	EPO; JPO; DERWENT	OR	ON	2009/02/17 11:32
S106	3	(c23c016\$.ipc. h01l021\$.ipc. c23c001\$.ipc.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4)) and (rail\$4 track\$4) and (substrate workpiece disk disc semiconductor wafer)	EPO; JPO; DERWENT	OR	ON	2009/02/17 11:35
S107	3	"02081455"	EPO; JPO; DERWENT	OR	ON	2009/02/17 11:38
S108	1047	((transfer\$4 transport\$4 convey\$4 carry\$4) with chamber) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4)) and (rail\$4 track\$4) and (substrate workpiece disk disc semiconductor wafer)	US-PGPUB; USPAT	OR	ON	2009/02/17 11:39
S109	57	((transfer\$4 transport\$4 convey\$4 carry\$4) with chamber) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail\$4 track\$4)) and (substrate workpiece disk disc semiconductor wafer)	US-PGPUB; USPAT	OR	ON	2009/02/17 11:39
S110	27	((118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((plate separat\$4 partition\$4) with (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) with (particle debris dust particulate dirt))	US-PGPUB; USPAT	OR	ON	2009/02/17 11:44
S111	23	((118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((plate separat\$4 partition\$4) with (flow\$4) with (particle debris dust particulate dirt))	US-PGPUB; USPAT	OR	ON	2009/02/17 12:46
S112	16	S111 not S110	US-PGPUB; USPAT	OR	ON	2009/02/17 12:47
S113	2243	((118/719) or (156/345.31) or (156/345.32)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/17 12:52
S114	2881	((156/345.51) or (156/345.54) or (118/728-729)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/17 12:53

S115	357	S113 and S114	US-PGPUB; USPAT	OR	ON	2009/02/17 12:54
S116	139	((inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) with flow\$4) and S115	US-PGPUB; USPAT	OR	ON	2009/02/17 12:55
S117	9	("20010035132" "20020036065" "20030097987" "20050022737" "4854263" "5685914" "5730801" "6409837" "6695318").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/17 13:35
S118	1	("20030029564").PN.	US-PGPUB; USPAT	OR	OFF	2009/02/17 13:42
S119	6	("20030029568" "20040060513" "20040089239" "5772770" "6435798" "6508199").PN.	US-PGPUB; USPAT	OR	ON	2009/02/17 13:42
S120	1	("5091217").PN.	US-PGPUB; USPAT	OR	OFF	2009/02/17 14:10
S121	2	((("4981408") or ("5091217"))).PN.	US-PGPUB; USPAT	OR	OFF	2009/06/08 12:25
S122	2	"06100164"	EPO; JPO; DERWENT	OR	ON	2009/06/08 12:28

7/ 7/ 09 6:51:12 PM

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